BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Repair and Maintenance of Roads and Drains in Ward No. 11 (Kuvempunagara).

Estimated Cost : Rs. 20.00 Lakhs

Head of Account : P-3726 Zonal Public Works

Job Code: 011-22-000008

Name of Agency: Sri. Puttaraju. A, No. B48/5, Puttu Nilaya, Pipeline B Cross, Bahubali Nagara, Jalahalli, Bangalore - 560013.

Work order No: BBMP/EE/BTP/WO/12/2022-23 D: 19-04-2022.

	Measurements Recarded on :	08/04/22					
Sl No.	**Description**	**No.**	**L**	**B**	**D**	**Qty**	**Rate / Qty**
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.						Cum
	For RCC Drains						
	Vyshnavi Layout						
	3rd Main to Cross Road S/S	1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	2.20	1.00	0.90	1.98	
	Cross Road to Dead End S/S						
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	2.00	1.00	0.90	1.80	
	N/S						
	Cross Road to Main Road	1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	
		1	14.80	1.00	0.90	13.32	
	Culverts						
	1st Main Road	1	8.10	2.00	1.05	17.01	
		1	7.50	2.00	1.05	15.75	
	Cross Road	1	6.00	2.00	1.05	12.60	
	near Dhanalakshmi Stores	1	7.30	2.00	1.05	15.33	
		Total Qty =				**266.79**	
		Qty Limited to =				**264.80**	Cum

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No.	Description	No.	L	B	D	Qty	Rate / Qty
	Measurements Recarded on : 11/04/22						
2	Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm** and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications						Cum
	For RCC Drains						
	Vyshnavi Layout						
	3rd Main to Cross Road S/S	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	2.20	0.90	0.15	0.30	
	Cross Road to Dead End S/S						
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	2.00	0.90	0.15	0.27	
	N/S						
	Cross Road to Main Road	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	14.80	0.90	0.15	2.00	
	Culverts						
	1st Main Road	1	8.10	1.90	0.15	2.31	
		1	7.50	1.90	0.15	2.14	
	Cross Road	1	6.00	1.90	0.15	1.71	
	near Dhanalakshmi Stores	1	7.30	1.90	0.15	2.08	
				Total Qty =		**39.15**	
				Qty Limited to =		**38.10**	Cum

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Assistant Executive Engineer
Vidayranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl No.	Description	No.	L	B	D	Qty	Rate / Qty
	Measurements Recarded on :	20/04/22					
3	Providing laying palin / reinforced cement concrete for side drains using M 20 nominal mix concrete with OPC at 300 kgs with 20 mm and down size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed well compacted for walls and bottom including cenmtering shuttering form work etc. complete as per approved drawing and design MORTH Specification No. 1500,1700,2200 Wall & Bottom thickness 15cm						Cum
	For RCC Drains Raft						
	Vyshnavi Layout 3rd Main to Cross Road S/S	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	2.20	0.90	0.15	0.30	
	Cross Road to Dead End S/S						
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	2.00	0.90	0.15	0.27	
	N/S						
	Cross Road to Main Road	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	14.80	0.90	0.15	2.00	
	Side Wall						
	Vyshnavi Layout 3rd Main to Cross Road S/S	2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	2.20	0.15	0.50	0.33	
	Cross Road to Dead End S/S						
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	2.00	0.15	0.50	0.30	
	N/S						
	Cross Road to Main Road	2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	15.00	0.15	0.50	2.25	
		2	14.80	0.15	0.50	2.22	
		Total Qty =				**65.27**	
		Qty Limited to =				**63.00**	Cum

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No.	Description	No.	L	B	D	Qty	Rate/ Qty
	Measurements Recarded on : 20/04/24						
4	Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500**						Tonne
	U Shape Drains	No	L	Mtrs	Kg/m	Kgs	
	3rd Main to Cross Road S/S 10 mm dia	768	2.30	1766.40	0.62	1095.17	
	8 mm dia	12	92.20	1106.40	0.39	431.50	
	Bussa Store Road W/S 10 mm dia	267	2.30	614.10	0.62	380.74	
	8 mm dia	12	32.00	384.00	0.39	149.76	
	Cross Road 10 mm dia	874	2.30	2010.20	0.62	1246.32	
	8 mm dia	12	104.80	1257.60	0.39	490.46	
						3793.95	Kgs
		Total Qty =				**3.79**	
		Qty Limited to =				**3.78**	Tonne

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Assistant Engineer
Ward No. 11

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl No.	Description	No.	L	B	D	Qty	Rate / Qty
	Measurements Recarded on : 22/04/22						
5	Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6, edges of stones** chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.						Cum
	Culverts SSM Wall						
	1st Main Road	2	8.10	0.60	0.90	8.75	
		2	7.50	0.60	0.80	7.20	
	Cross Road	2	6.00	0.60	0.80	5.76	
	near Dhanalakshmi Stores	2	7.30	0.60	0.80	7.01	
		Total Qty =				**28.72**	
		Qty Limited to =				**28.35**	Cum

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Vidyaranyapura Sub Div
BBMP, Bangalore

Sl No.	Description	No.	L	B	D	Qty	Rate / Qty
	Measurements Recarded on : 23/04/22						
6	Providing **ruled pointing 20 mm deep** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications						Sqm
	Pointing						
	1st Main Road	2	8.10		0.90	14.58	
		2	7.50		0.90	13.50	
	Cross Road	2	6.00		1.00	12.00	
	near Dhanalakshmi Stores	2	7.30		1.00	14.60	
			Total Qty =			**54.68**	
			Qty Limited to =			**54.00**	Sqm

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Assistant Engineer
Ward No. 11

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BBMP, Bangalore - 97